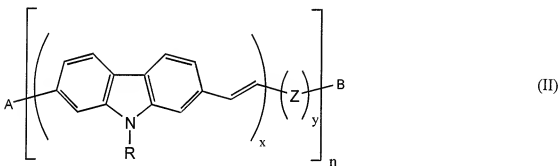


AMENDMENTS TO THE CLAIMS

Claims 1-3. (cancelled)

4. (currently amended) An organic based device being one of an Organic Field Effect Transistor (OFET) and an Organic Photovoltaic Cell (OPC), the device comprising active material including a conjugated 2,7-carbazolenevinylene derivative where 2,7-carbazolenevinylene monomers can also be alternated with other monomers to form oligomeric or polymeric materials according to the general formula (II):



wherein n is an integer ≥ 3 , R represents a substituent that is a hydrogen, or linear or branched alkyl group containing 1 to 20 carbon atoms, linear or branched alkoxy group containing 1 to 20 carbon atoms, poly (ethyleneoxy), cyano, aryl, amide or benzoyl, x is an integer between 1 [to] and 1000, y is an integer between 0 [to] and 1000, Z is any type of comonomer selected from the group consisting of ethylene, acetylene, C_6 - C_{22} mononuclear/polynuclear aromatic, C_2 - C_{10}

mononuclear/polynuclear heterocyclic groups and tertiary arylamines, and A, B are any type of end-cap groups selected from the group consisting of hydrogen, linear or branched alkyl group containing 1 to 20 carbon atoms, linear or branched alkoxy group containing 1 to 20 carbon atoms, cyano group, halogen group, monovalent aromatic group, and monovalent aromatic complex ring group having one nitrogen atom as a hetero-atom.

5. (original) The organic based device of claim 4 being an OFET, wherein said 2,7-carbazolenevinylene derivative is 1,4-bis(vinylene-(N-methyl-7-hexyl-2-carbazole))phenylene (CPC).

6. (original) The organic based device of claim 4 being an OFET, wherein said 2,7-carbazolenevinylene derivative is 1,4-bis(vinylene-(N-hexyl-2-carbazole))phenylene (CPC).

7. (original) The organic based device of claim 4 being an OPC, wherein said 2,7-carbazolenevinylene derivative is [Poly (N-(2-ethylhexyl-2,7-carbazolenevinylene-co-2,5-bis(diphenylamine)-1,4-phenylenevinylene-co-((4-(2-ethylhexyloxy)-phenyl)-bis-(4'-phenylene)amine))] (PCVDPATA).

8. (original) The organic based device of claim 4 being an OPC, wherein said 2,7-carbazolenevinylene derivative is [Poly (N-(4-hexyloxyphenyl)-2,7-carbazolenevinylene-alt-(3-hexyl-2,5-thiophenevinylene))] (PPCVT).

9. (original) The organic based device of claim 4 being an OPC, wherein said 2,7-carbazolenevinylene derivative is mixed with a second active material.

10. (currently amended) The organic based device of ~~claim 4 being an OPC~~ claim 9, wherein said second active material is [N,N'-Bis(2,6-dimethylphenyl)-3,4,9,10-perylenetetracarboxylic diimide] (PTD).
11. (currently amended) The organic based device of ~~claim 4 being an OPC~~ claim 9, wherein said second active material is [6,6-phenyl-C61 butyric acid methyl ester] (PCBM).
12. (original) The organic based device of claim 4 being an OPC comprising a hole transport layer, an electron transport layer, and wherein at least one of said hole transport layer and said electron transport layer comprises either alone or in combination as active material a conjugated 2,7-carbazolenevinylene derivative.
13. (new) The organic based device of claim 4 wherein the value of y is 0 for all blocks.
14. (new) The organic based device of claim 13 being an OFET.
15. (new) The organic based device of claim 13 being an OPC.